BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

Name of Work: "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore

Civil Aim Consultants & Engineers

(An ISO 9001: Certified Company)

NABL Accredited as per ISO-17025: 2017 Laboratory

NO.01,Satvika Nilaya , Opp. Widia Poorna Prajna School,
Ramaiah Layout,Nagasandra,Bangalore-560073

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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QC ABSTRACT

Nameof Work: "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Resuts
1	Materials	–	1	1	Pass
2	Steel	5.75 Tonne	1	1	Pass
3	M25	31.03 Cum	4	7	Pass
4	M15	13.71 Cum	2	2	Pass
5	Bricks	55.79 Cum	1	1	Pass
6	CPVC-25mm	100.00Mtr	1	1	Pass
7	CPVC-32mm	100.00Mtr	1	1	Pass
8	PVC-100mm	75.00Mtr	1	1	Pass
9	Ceramic Tiles	20.58 Sqm	1	1	Pass
10	Vetrified Tiles	4.44Sqm	1	1	Pass
11	Stainless Steel	131.76 Kgs	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

A.E.E.

For CIVIL AIM CONSUTANTS AND ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/TSK-1/W.No.01/2023-24 Date: 11.03.2024

TEST REPORT

CLIENT	:	**Assistant Executive Engineer**, Yelahanka Sub division, BBMP, Bangalore.
AGENCY	:	**Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor,** Bangalore.
NAME OF THE WORK	:	"Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		February - 2024
DATE OF TESTING		09.03.2024 to 11.03.2024

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	132 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	351 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

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Job No.: CACE/BBMP/TSK-1/W.No.01/2023-24 Date : 11.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of Work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Date of Testing : 11.03.2024

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	168	16.80	25.30	74.7	75-100
1.18	180	18.00	43.30	56.7	55-90
600 Micron	158	15.80	59.10	40.9	35-59
300 Micron	225	22.50	81.60	18.4	8-30
150 Micron	119	11.90	93.50	6.5	0-10

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Job No.: CACE/BBMP/TSK-1/W.No.01/2023-24 Date : 11.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency **: Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of Work "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Date of Testing : 11.03.2024

Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	24	2.40	2.40	97.6	90-100
1.18	48	4.80	7.20	92.8	70-100
600 Micron	89	8.90	16.10	83.9	40-100
300 Micron	239	23.90	40.00	60.0	5-70
150 Micron	502	50.20	90.20	9.8	0-15

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Job No.: CACE/BBMP/TSK-1/W.No.01/2023-24 Date : 11.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of Work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Date of Testing : 11.03.2024

Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	16	1.60	1.60	98.4	95-100
2.36	41	4.10	5.70	94.3	95-100
1.18	45	4.50	10.20	89.8	90-100
600 Micron	79	7.90	18.10	81.9	80-100
300 Micron	245	24.50	42.60	57.4	20-65
150 Micron	515	51.50	94.10	5.9	0-15

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Job No.: CACE/BBMP/TSK-I/W.No.01/2023-24 Date : 11.03.2024

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of Work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Date of Testing : 11.03.2024

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	172	3.4	3.4	96.6	95-100
10	2461	49.2	52.7	47.3	25-55
4.75	2002	40.0	92.7	7.3	0-10

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Job No.: CACE/BBMP/TSK-1/W.No.01/2023-24 Date : 11.03.2024

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

AGENCY **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of Work "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Steel Dia/Length :8mm, 10mm,12mm,16mm" Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 11.03.2024

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	529	624	1.18	13.5
2	TMT	10	0.621	537	638	1.19	14
3	TMT	12	0.891	548	665	1.21	15.5
4	TMT	16	1.589	559	674	1.21	17

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	11.2	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	10.8	
3	11.1	
4	10.9	
5	11.3	
Average of 5 bricks	**11.1**	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4585	4520 to 4680 mm
2	Width	2145	2160 to 2240 mm
3	Height	1415	1360 to 1440 mm

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 30.05.2024

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of Work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 25mm dia

Date of Testing 30.05.2024

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	27.2	27.2 mm
2	Mean Outside Diameter (mm)	27.2	Min 27.1 mm Max 27.3 mm
3	Outside Diameter at Any Point (mm)	27.20%	Min 27 mm Max 27.4 mm
4	Density	1545.00	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 30.05.2024

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of Work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 32mm dia

Date of Testing 30.05.2024

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	34.8	34.8 mm
2	Mean Outside Diameter (mm)	34.8	Min 34.8 mm Max 35 mm
3	Outside Diameter at Any Point (mm)	34.80%	Min 34.7 mm Max 35.1 mm
4	Density	1530 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25

Date : 05.06.2024

TEST REPORT ON CERAMIC TILES

*Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

*Contractor : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

*Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 01.06.2024 to 05.06.2024

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.9	48.9	48.32	Average 47, individual minimum 44 N/mm^2
2	300x300x5.9	48.3		
3	300x300x5.8	48.4		
4	300x300x5.8	47.9		
5	300x300x5.7	48.1		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.9	No visible effect	Class AA, min (13630 Part 8)
2	300x300x5.9	No visible effect	
3	300x300x5.8	No visible effect	
4	300x300x5.8	No visible effect	
5	300x300x5.7	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.9	Stain Removed by Water	Class 1, min (13630 Part 8)
2	300x300x5.9	Stain Removed by Water	
3	300x300x5.8	Stain Removed by Water	
4	300x300x5.8	Stain Removed by Water	
5	300x300x5.7	Stain Removed by Water	

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Job No.: CACE/BBMP/TSK-1/W.No.01/2023-24

Date : 05.06.2024

TEST REPORT ON VITRIFIED TILES

*Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

*Contractor : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

*Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Vitrified Tiles
IS 15622 - 2006 - Specification of Vitrified Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 01.06.2024 to 05.06.2024

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.6	47.5	47.92	Average 47, indivisual minimum 44 N/mm^2
2	600 x 600 x 9.2	48.3		
3	600 x 600 x 9.7	47.5		
4	600 x 600 x 9.8	48.2		
5	600 x 600 x 9.6	48.1		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.6	No visible effect	Class AA, min (13630 Part 8)
2	600 x 600 x 9.2	No visible effect	
3	600 x 600 x 9.7	No visible effect	
4	600 x 600 x 9.8	No visible effect	
5	600 x 600 x 9.6	No visible effect	

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Job No.: CACE/BBMP/TSK-1/W.No.01/2023-24

Date: 22.03.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete for Column Above FF

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2024	22.03.2024	8.098	396.7	17.63
2	16.03.2024	22.03.2024	8.103	398.5	17.71
3	16.03.2024	22.03.2024	8.115	399.1	17.74

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An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 12.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete for Lintel

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2024	12.04.2024	8.145	400.2	17.79
2	05.04.2024	12.04.2024	8.148	412.8	18.35
3	05.04.2024	12.04.2024	8.169	411.7	18.30

Note:

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A.E.E.

For CIVIL AIM CONSULTANTS AND ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25

Date: 03.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete for FF Roof Beam

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2024	03.05.2024	8.191	603.8	26.84
2	26.04.2024	03.05.2024	8.195	609.5	27.09
3	26.04.2024	03.05.2024	8.202	612.7	27.23

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25

Date: 24.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**
Agency	**: Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**
Name of the work	: "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.
Sample ID	: Cement Concrete for FF Roof Beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2024	24.05.2024	8.193	602.3	26.77
2	26.04.2024	24.05.2024	8.198	609.5	27.09
3	26.04.2024	24.05.2024	8.206	618.1	27.47

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 24.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**
Agency	: **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**
Name of the work	: "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.
Sample ID	: Cement Concrete for FF Roof Slab
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2024	24.05.2024	8.166	603.6	26.83
2	26.04.2024	24.05.2024	8.175	608.1	27.03
3	26.04.2024	24.05.2024	8.187	612.8	27.24

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 24.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete for FF Roof Slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2024	24.05.2024	8.189	604.9	26.88
2	26.04.2024	24.05.2024	8.192	608.1	27.03
3	26.04.2024	24.05.2024	8.203	612.3	27.21

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 21.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete for Column above SF

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2024	21.05.2024	8.128	399.3	17.75
2	14.05.2024	21.05.2024	8.133	398.5	17.71
3	14.05.2024	21.05.2024	8.121	405.1	18.00

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 11.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**
Agency	**: Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**
Name of the work	: "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.
Sample ID	: Cement Concrete for Column above SF
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2024	11.06.2024	8.169	602.3	26.77
2	14.05.2024	11.06.2024	8.174	608.1	27.03
3	14.05.2024	11.06.2024	8.181	600.9	26.71

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 03.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete for SF Roof slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.05.2024	03.06.2024	8.119	397.5	17.67
2	27.05.2024	03.06.2024	8.127	402.9	17.91
3	27.05.2024	03.06.2024	8.144	403.4	17.93

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25 Date: 18.07.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2024	18.07.2024	8.188	381.9	16.97
2	20.06.2024	18.07.2024	8.191	382.5	17.00
3	20.06.2024	18.07.2024	8.195	384.9	17.11

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25

Date: 27.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2024	27.06.2024	8.105	269.7	11.99
2	20.06.2024	27.06.2024	8.110	270.2	12.01
3	20.06.2024	27.06.2024	8.117	272.6	12.12

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Job No.: CACE/BBMP/TSK-1/W.No.01/2024-25

Date: 18.07.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

Agency : **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2024	18.07.2024	8.169	369.5	16.42
2	20.06.2024	18.07.2024	8.177	370.2	16.45
3	20.06.2024	18.07.2024	8.183	371.3	16.50

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Job No:CACE/BBMP/TSK-1/W.No.01/2023-24

Date: 01.07.2024

TEST REPORT OF PHYSICAL PROPERTIES OF STAINLESS STEEL

CLIENT — **Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.**

AGENCY — **Sri. T S Kothanda Raju(Prop. R K Constructions, Prop. Shree Charan Constructions), Contractor, Bangalore.**

NAME OF THE WORK — "Construction of Additional floor to Kenchenahalli Samudaya Bhavana in Ward No.01", BBMP,Bangalore.

SS Dia/Length: 50mm dia

Reference to BIS codes: IS 6911:1992
IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: 01.07.2024

Tensile Test:

Nominal size (dia in mm)	50mm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	245	200 Min
Tensile strength (N/mm^2)	443	400 Min
Elongation, percent in Min in 50mm	44	40 Min

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